



MAR 19 1999

Sheet 1 of 17

FORM PTO-1449

**U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE**

ATTY. DOCKET NO.
2026-4230US1

SERIAL NO.
09/155,590

INFORMATION DISCLOSURE CITATION

APPLICANT(S)
Jeffrey Schlom et al

FILING DATE
September 30, 1998

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

SEARCHER	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
HAC	2,253,211	2/9/92	GB	—	—		
HAC	WO 89/06974	8/10/89	WO	—	—		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

		<p>Rotzschke, O. et al, Isolation and analysis of naturally processed viral peptides as recognized by cytotoxic T cells, <u>Nature</u> 1990, 348:252-254.</p>
		<p>Skipper, J. et al, Identification of Two Cytotoxic T Lymphocyte-recognized Epitopes in the Ras Protein, <u>The Journal of Experimental Medicine</u>, 177 (5), 1993, 1493-1498.</p>

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~~Hope Robinson~~ Eddie

DATE CONSIDERED

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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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/Karen A. Canella/
7/15/2009



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1643

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							YES

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

<i>JK</i>		Abrams, S.I. et al, Mutant <i>ras</i> epitopes as targets for cancer vaccines, <u>Sem. Oncol.</u> 23, 118-134 (1996).
<i>HAC</i>		Eishenlohr, L.C. et al, A transient transfection system for identifying biocsynthesized proteins processed and presented to class I MHC restricted T lymphocytes, <u>J. Immunol. Meth.</u> , 1992, 154:131.

EXAMINER

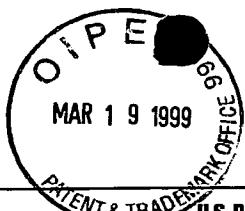
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Sheet 3 of 17

FORM PTO-1449 INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>				ATTY. DOCKET NO. 2026-4230US1	SERIAL NO. 09/155,590		
				APPLICANT(S) Jeffrey Schlom et al			
				FILING DATE September 30, 1998	GROUP ART UNIT 1643		
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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							YES
OTHER DOCUMENTS (including Author, Title, Date, Pertinent Papers, etc.)							
		Peace, D.J. et al, T cell recognition of transforming proteins encoded by mutated <i>ras</i> proto-oncogenes, <i>J. Immunol.</i> , 146, 2059-2065, (1991).					
		Takahashi, H.S. et al, A single amino acid interchange yields reciprocal CTL specificities for HIV-1 gp 160, <i>Science</i> , 1989, Vol. 246, 118-121.					
EXAMINER				DATE CONSIDERED			
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						YES NO

OTHER DOCUMENTS (including Author, Title, Date, Periodicals, Etc.)

<i>HR</i>		Rock, K.L. et al, Analysis of the association of peptides of optimal length to class I molecules or
		the surface of cells, Proc. Natl. Acad. Sci. USA 1992, Vol. 89, 8918-8922.
<i>HR</i>		Mitsudomi, T. et al, P53 mutation in non small lung cancer cell line and their correlation with
		the presence of ras mutations and clinical features, Oncogene 1992, Vol. 7, No. 1, 171-180.

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Hope Robinson Emtt

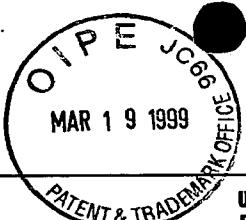
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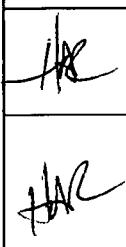
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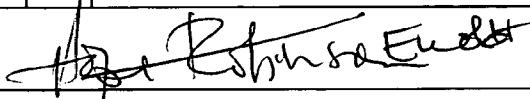
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

		Kahn, S.M. et al, Rapid and sensitive nonradioactive detection of mutant K-ras genes via enriched PCR amplification, <u>Oncogene</u> , Vol. 6, No. 6, 1079-1083 (1991).					
		Fenton, R.G. et al, Cytotoxic T-Cell Response and In Vivo Protection Against Tumor Cells					
		Harboring Activated ras Proto-oncogenes, <u>Journal of the National Cancer Institute</u> , Vol. 85, No. 16, August 18, 1993.					

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							YES

OTHER DOCUMENTS *(Including Author, Title, Date, Pertinent Papers, etc.)*

<i>KAC</i>		Tsang, K.Y. et al, Generation of human cytotoxic T cells specific for human carcinoembryonic antigen epitopes from patients immunized with recombinant vaccinia-CEA vaccine, <u>J. Natl. Cancer Inst.</u> , Vol. 87, No. 13, July 1995, 982-990.
<i>KAC</i>		Hamer, P.J. et al, Activated Val-12 ras p21 in cell culture fluids and mouse plasma, <u>Oncogene</u> , Vol. 6, No. 9, 1609-1615 (1991).

EXAMINER	<i>Jeffrey A. Canella</i>	DATE CONSIDERED <i>3/27/00 10/5/00</i>
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<i>KAC</i>		Carter, G. et al, <i>Ras</i> mutations in patients following cytotoxic therapy for lymphoma, <i>Oncogene</i> , Vol. 5, No. 3, 1990, 411-416.
		Fenton, R.G. et al, Induction of T-Cell Immunity Against <i>Ras</i> Oncoproteins by Soluble Protein or <i>Ras</i> -Expressing <i>Escherichia coli</i> , <i>Journal of the National Cancer Institute (Bethesda)</i> , Vol. 87, No. 24, 1995, 1853-1861.
<i>KAC</i>		<i>See Robert Schliom</i>

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<p>FORM PTO-1449</p> <p>PATENT & TRADEMARK OFFICE</p> <p>U.S. DEPARTMENT OF COMMERCE</p> <p>PATENT AND TRADEMARK OFFICE</p> <p>INFORMATION DISCLOSURE CITATION</p> <p><i>(Use several sheets if necessary)</i></p>	<p>ATTY. DOCKET NO. 2026-4230US1</p>	<p>SERIAL NO. 09/155,5904</p>
<p>APPLICANT(S)</p> <p>Jeffrey Schliom et al</p>	<p>FILING DATE</p> <p>September 30, 1996</p>	<p>GROUP ART UNIT</p> <p>1643</p>

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

[Signature] Capon, D. J. et al, Activation of *Ki-ras* 2 gene in human colon and lung carcinomas by two different point mutations, Nature, Vol. 304, No. 11, August 1983, 507-513.

[Signature] Bos, J.L., The *ras* gene family and human carcinogenesis, Mutation Research, 195 (1988), 255-271.

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INFORMATION DISCLOSURE CITATION <i>(Use several sheets if necessary)</i>		
APPLICANT(S) Jeffrey Schliom et al		
FILING DATE September 30, 1996		GROUP ART UNIT 1643

U.S. PATENT DOCUMENTS

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<i>HAK</i>		Van Bleek, G. et al, Isolation of an endogenously processed immunodominant viral peptide from
		the class I H-2K molecule, <u>Nature</u> 1990, 348:213-216.
<i>HAK</i>		Mitsudomi, T. et al, <i>Ras</i> gene mutation in non small lung cancer are associated with shortened
		survival irrespective of treatment intent, <u>Cancer Research</u> 1991, 51:4999-5002.

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survival irrespective of treatment

DATE CONSIDERED

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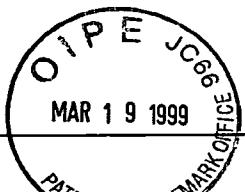
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							YES <input type="checkbox"/> NO <input type="checkbox"/>
OTHER DOCUMENTS <i>(Including Author, Title, Date, Pertinent Papers, Etc.)</i>							
<i>[Signature]</i>		Bos, J.L., <i>ras</i> Cancer Research 49, 4682-4689 (1989).					
<i>[Signature]</i>		Fossum, B. et al, CD8+ T cells from a patient with colon carcinoma, specific for a mutant p21- <i>Ras</i> -derived peptide (GLY ¹³ >ASP), are cytotoxic towards a carcinoma-cell line harbouring the same mutation, <u>Cancer Immunol. Immunotherapy</u> 40, 165-162 (1995).					
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<i>KAC</i>		Qin, H. et al, CD4+ T-cell immunity to mutated <i>ras</i> protein in pancreatic and colon cancer patients, <i>Cancer Research</i> 55, 2984-2987 (1995).
		Abrams, S.I. et al, Peptide-specific activation of cytolytic CD4+ T lymphocytes against tumor cells bearing mutated epitopes of K- <i>ras</i> p21, <i>Eur. J. Immunol.</i> 25, 2588-2597 (1995).
<i>KAC</i>		

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Hope Robinson Eudell

DATE CONSIDERED

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U.S. PATENT DOCUMENTS

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<i>HAR</i>		Abrams, S.I. et al, Identification of overlapping epitopes in mutant <i>ras</i> oncogene peptides that activate CD4+ and CD8+ T cell responses, <u>Eur. Journal of Immunology</u> 26 (2) 1996, 435-443.
		Gjertsen, M.K. et al, <i>Ex vivo ras</i> peptide vaccination in patients with advanced pancreatic cancer: results of a phase I/II study, <u>Int. J. Cancer</u> 65, 450-453 (1996).
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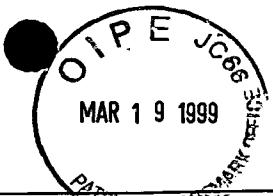
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, Etc.)

<i>HR</i>		Fossum, B. et al, Overlapping epitopes encompassing a point mutation (12 Gly > Arg) in p21
		<i>ras</i> can be recognized by HLA-DR, -DP and -DQ restricted T cells, <u>Eur. J. Immunol.</u> 23, 2687-2691 (1993).
<i>HR</i>		Geddle-Dahl III et al, T-cell responses against products of oncogenes: generation and
		characterization of human T-cell clones specific for p21 <i>Ras</i> -derived synthetic peptides, <u>Human Immunol.</u> 33, 266-274 (1992).

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Hope Peterson Endt

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<i>HR</i>		Salter, R.D. et al, Impaired assembly and transport of HLA-A and B antigens in a mutant TxB
		hybrid, <u>EMBO J.</u> , 5, 943-949 (1986).
<i>HR</i>		Jung, S. et al, Human T lymphocytes recognize a peptide of single point-mutated, oncogenic <i>ras</i>
		proteins, <u>J. Exp. Med.</u> , 163, 273-276 (1991).

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Nancy Johnson Ewald

DATE CONSIDERED

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<i>HAC</i>		Khleif, S.N. et al, Induction of T cell responses after vaccination with specific <i>Ras</i> mutant peptides in cancer patients, <u>Proceedings of the American Association for Cancer Research</u> , Vol. 37, March 1996, Abstract.						
<i>HAR</i>		Tsang, K.Y. et al, Induction of Human Cytotoxic T Cell Lines Directed Against Point-Mutated p21 Ras-Derived Synthetic Peptides, <u>Vaccine Research</u> , Vol. 3, No. 4, p. 183-193, 1994.						
EXAMINER		<i>Hope Robinson</i>		DATE CONSIDERED		<i>3/21/08 105100</i>		
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<i>HR</i>		Gaudernack, G., T cell responses against mutant <i>ras</i> , a basis for novel cancer vaccines
		<u>Immunotechnology</u> 2 (1996), pp. 3-9.
<i>HR</i>		Carbone et al, Feasibility of immunization with individualized mutant <i>ras</i> and p53 peptides
		in patients with solid tumors, <u>Proc. ASCO</u> Vol. 14, p. 546 (6/14/95).

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